

PR 23-AUG-2000; 2000US-0649167.
yy

PA (HYSE-) HYSEQ INC.

PI Drmanac RT, Liu C, Tang YT, YV

DR WPI; 2001-639362/73.

XX New York State

PT New isolated polynucleotide and encoded polypeptides, useful in diagnostics, forensics, gene mapping, identification of mutations responsible for genetic disorders or other traits and to assess biodiversity -

PS Claim 1; SEQ ID No 10554; 103pp; English.

The invention relates to isolated polynucleotide (I) and polypeptide (II) sequences, (I) is useful as hybridisation probe, polymerase chain reaction (PCR) primers, oligomers, and for chromosome and gene mapping, and in recombinant production of (II). The polynucleotides are also used in diagnostics as expressed sequence tags for identifying expressed genes. (I) is useful in gene therapy techniques to restore normal activity of (II) or to treat disease states involving (II). (II) is useful for generating antibodies against it, detecting or quantitating a polypeptide in tissue, as molecular weight markers and as a food supplement. (II) and its binding partners are useful in medical imaging of sites expressing (II). (I) and (II) are useful for treating disorders involving aberrant protein expression or biological activity. The polypeptide and polynucleotide sequences have applications in diagnostics, forensics, gene mapping, identification of mutations responsible for genetic disorders or other traits to assess biodiversity and to produce other types of data and products dependent on DNA and amino acid sequences. AHS6197-AHS94564 represent novel human diagnostic coding sequences of the invention.

Note: The sequence data for this patent did not appear in the printed specification, but was obtained in electronic format directly from WIPO at http://wipo.int/pubid/published.pct_sequences.

Sequence 2049 BP; 479 A; 573 C; 551 G; 443 T; 3 other;

Query Match	Score	DB	Length
33.4%	857	23	2049

Matches 1027; Conservative 0; Mismatches 32; Indels 62; Gaps 9

Qy	3172	ATTTCCTCCATCATATGTCGTTCTGTAGAGCTCTGCTGAGAAACAATGGGAAGCTGCGCAG	431
Db	922	ATTTCCTCCATCATATGTCGTTCTGTAGAGCTCTGCTGAGAAACAATGGGAAGCTGCGCAG	981
Qy	432	CAGAAGAAAATCTTCGCAAGCCCAAGCTTGAGTTCCTGTCCAAAGCCAGGACCTGT	491
Db	982	CAGAAGAAAATCTTCGCAAGCCCAAGCTTGAGTTCCTGTGTCCAAAGCCAGGACCTGT	1041
Qy	492	GACCATGGAGCGAGAGAACCAAGGCCACACGCTGGCCCTCTGGGCAATTTCCCGCAGG	551
Db	1042	GACCATGGAGCGAGAGAACCAAGGCCACACGCTGGCCCTCTGGGCAATTTCCCGCAGG	1101
Qy	552	TGGCCCGGCGGACGTCGTGCTGAGACCTCGGGAGGCAATTGACCATGTCCTGAGCATGG	611
Db	1102	TGGCCCGGCGGACGTCGTGCTGAGACCTCGGGAGGCAATTGACCATGTCCTGAGCATGG	1161
Qy	612	AGACTGTGACCGGTGCTGTCTGAAGTTCACGACGAGAGATPAATCCTCCACGACTCCA	671
Db	1162	AGACTGTGACCGGTGCTGTCTGAAGTTCACGACGAGAGATPAATCCTCCACGACTCCA	1221
Qy	672	CGTGGCCAAAGTCTCCCATGGGTGGCTGTATATAGGGGCTTAGGACGAGAGAAAACGACGA	731
Db	1222	CGTGGCCAAAGTCTCCCATGGGTGGCTGTATATAGGGGCTTAGGACGAGAGAAAACGACGA	1281
Qy	732	ACTGCTGTATTACCTGAGGAACCTCGAGGGGCTTCTCATCCGAGAGACCGACGACGAG	791
Db	1282	ACTGCTGTATTACCTGAGGAACCTCGAGGGGCTTCTCATCCGAGAGACCGACGACGAG	1341
Qy	792	GAGAGGCTCTTACTCTGTGTAGTTCGCGCTCAGCGCGGCTTCGATCTCTGGACCGGATCAG	851

Db	1342	GAGAGGCTCTTA	CTCTCTGTGACGTCCGCTCAACCCGCTCGATTTCTTGGACCGGATCAG	1401	
Qy	852	ACACATACAGAT	TCACTGCTCTTGACAAAGSGTGGCTGTACATCTACCGGGCTCACTT	911	
Db	1402	ACACATACAGAT	TCACTGCTCTTGACAAAGSGTGGCTGTACATCTACCGGGCTCACTT	1461	
Qy	912	CCCTCTACTC	AGAGCCCTGTGGACCATTA	CTGTGAGCTGGGATGACATCTGCTGCTT	971
Db	1462	CCCTCTACTC	AGAGCCCTGTGGACCATTA	CTGTGAGCTGGGATGACATCTGCTGCTT	1495
Qy	972	ACTCAAGAGG	CCCTGTGTCTCTGCAGAGGGGCGGCGCTCCCTGGCAAGATATACCCCT	1031	
Db	1496	-----	-----GAGGGCTGGGCGGCTCTCTGGCAAGATATACCCCT	1531	
Qy	1032	ACCTGTGACT	GTGCAGAGACACCACTGACATGGAAGAAGCTGACAGCTCCCTCTGTT	1091	
Db	1532	ACCTGTGACT	GTGCAGAGACACCACTGACATGGAAGAAGCTGACAGCTCCCTCTGTT	1591	
Qy	1092	TTCTGAGAGTC	GCACA-GGGAGAGGCTCTCTTCACG-TGAGAGGCTCCGGGAGT-CCCT	1148	
Db	1592	TTCTGAGAGTC	GCACAAGGGAGAGGATCTTCTTCTCAGAGAGAGGGCTCCGGAGTCCCTT	1651	
Qy	1149	CAGCTTCTA	CATCAG-CCTGAATGACGAGGCTGTCTC-TTTGGATGATGCTCTAG-CC	1203	
Db	1652	CAGCTTCTA	CATCAGGCTCTGAATGACGAGGCTGTCTTTCGATGATGCTCAGGCCCC	1711	
Qy	1204	CAAGAGAGAG	CCCAAAAGGGAAA-CCAAAGGCTGCACACTGACACCCCAATTACGCTT	1260	
Db	1712	CAAGAGAGAG	CCCAAAAGGGAAAACCACGTTGGCCACCTTAGAACCCCAATTACGCTT	1771	
Qy	1261	CTGTGGCAC	CCCCAGAGGCACAGGCTGTGACTCAGGAGGAGAGGTTGGGACACAGAGTGC	1320	
Db	1772	CTGTGGCAC	CCCCAGAGGCACAGGCTGTGACTCAGGAGGAGAGGTTGGGACACAGAGTGC	1831	
Qy	1321	ATCTAGGGT	TCCCACTGTACCTTCTCTTCTCTTAGGCCCTTGAAGTCACTACT	1380	
Db	1832	ATATAGGGT	TCCCACTGTACCTTCTCTTCTCTTAGGCCCTTGAAGTCACTACT	1891	
Qy	1381	TTCCTTCAC	AGTGCATATCCCACTCTGAGCACTTA	GTGAGTGCAGAGAAAGTTGGAGAC	1440
Db	1892	TTCCTTCAC	AGTGCATATCCCACTCTGAGCACTTA	GTGAGTGCAGAGAAAGTTGGAGAC	1951
Qy	1441	AGGGCCAGGG	TT-CCAAAAAGAAATAGCCTCTCTGGGGG	1480	
Db	1952	AGGGCCAGGG	TTCCAAAAAGAAATAGCCTCTCTGGGGG	1992	
RESULT 3					
AACT7202					
ID AACT7202 standard; cDNA; 837 BP.					
XX	AACT7202;				
XX	08-FEB-2001 (first entry)				
XX	Human ORF2757 polynucleotide sequence SEQ ID NO:5513.				
XX	Human; open reading frame; ORF; detection; cytostatic; hepatotropic;				
KM	vulnerary; antipsoptic; antiparkinsonian; neurotropic; neuroprotective;				
KM	anticonvulsant; osteopathic; antiflathetic; immunosuppressant; cardiant				
KM	immunostimulant; thrombolytic; coagulant; vasotropic; antidiabetic;				
KM	hypotensive; dermatological; immunosuppressive; antinflammatory;				
KM	antiviral; antibacterial; antifungal; antineumatic; antithyroid;				
KM	antinaemic; gene therapy; cancer; proliferative disorder; hypertension;				
KM	neurodegenerative disorder; osteoarthritis; graft vs host disease;				
KM	cardiovascular disease; diabetes mellitus; hypothyroidism; SCID; AIDS;				
KM	cholesterol ester storage; systemic lupus erythematosus; infection;				
KM	severe combined immunodeficiency; malaria; autoimmune disorder; asthma;				
KM	allergy; aplastic anaemia; nocturnal haemoglobinuria; burn; wound;				
KM	bone damage; cartilage damage; antinflammatory disease; coagulation;				
KM	thrombosis; contraceptive; ss.				

OS Homo sapiens.
 XX WO200058473-A2.
 PN
 XX
 PD 05-OCT-2000.
 XX
 PF 31-MAR-2000; 2000MO-US08621.
 XX
 PR 31-MAR-1999; 99US-0127607.
 PR 02-APR-1999; 99US-0127636.
 PR 05-APR-1999; 99US-0127728.
 PR 30-MAR-2000; 2000US-0540763.
 XX
 PA (CURA-) CURAGEN CORP.
 XX
 PI Shinkens RA, Leach M;
 DR WPI; 2000-602362/57.
 DR P-PSDB; AAB42993.
 XX
 PT Novel nucleic acids and peptides derived from open reading frame X,
 PT useful for treating e.g. cancers, proliferative disorders,
 PT neurodegenerative disorders and cardiovascular disease -
 XX
 PS Claim 5; Page 4692-4693; 5507P; English.
 XX
 CC AAC74446 to AAC77606 encode the proteins given in AAB40237 to AAB43397,
 CC which represent the human ORFX open reading frames 1 to 3161. The ORFX
 CC sequences have activities such as: cytostatic; hepatotropic; vulnary;
 CC antiproliferative; antiparkinsonian; nootropic; neuroprotective;
 CC osteoprotective; anticonvulsant; antiallergic; immunosuppressive;
 CC immunomodulant; cardiant; thrombolytic; coagulant; vasoconstrictor;
 CC antidiabetic; hypotensive; dermatological; immunosuppressive;
 CC antitumour; antibacterial; antiviral; antifungal; antileukemic;
 CC antihypertensive; antidiabetic. The sequences can be used for determining
 CC the presence of or predisposition to, or preventing or treating
 CC pathological conditions associated with an ORFX-associated disorder. The
 CC nucleic acids can be used to express ORFX proteins in gene therapy.
 CC vectors. The proteins and nucleic acids may be used to treat cancers,
 CC proliferative disorders, neurodegenerative disorders, osteoarthritis,
 CC graft vs host disease, cardiovascular disease, diabetes mellitus,
 CC hypertension, hypothyroidism, cholesterol ester storage, systemic lupus
 CC erythematosus, severe combined immunodeficiency (SCID), AIDS, viral,
 CC bacterial or fungal infection, malaria, autoimmune disorders, asthma,
 CC allergies, aplastic anaemia, burns, wounds, bone and cartilage damage,
 CC nocturnal haemoglobinuria, inflammatory disease; to enhance
 CC coagulation; to inhibit thrombosis; and as a contraceptive.
 CC
 XX
 SQ Sequence 837 BP; 176 A; 254 C; 245 G; 160 T; 2 other:
 Query Match 32.4%; Score 831.8; DB 21; Length 837;
 Best Local Similarity 99.8%; Pred. No. 6,5e-199;
 Matches 833; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 756 TGGAGGGGCTTCTCTCATCGGGAGAGCCAGACCAAGAGAGCTTTACTCTCTGACGT 815
 DB 303 TGGAGGGGCTTCTCTCATCGGGAGAGCCAGACCAAGAGAGCTTTACTCTCTGACGT 362
 QY 816 CCGCTAGCGCGCTGATCTGAGGACCGATCAGACCACTACAGGATCACTGCTTGA 875
 DB 363 CCGCTAGCGCGCTGATCTGAGGACCGATCAGACCACTACAGGATCACTGCTTGA 422
 QY 876 CAATGCTGCTGATCATCTACCGGCTTCACTTCCCTCACTCAAGCCCTGCTGGA 935
 DB 423 CAATGCTGCTGATCATCTACCGGCTTCACTTCCCTCACTCAAGCCCTGCTGGA 482
 QY 936 CCATTACTGAGCTGAGCGGATGACATCTGCTGCTTCACTCAAGGAGCCCTGCTGGA 995
 DB 483 CCATTACTGAGCTGAGCGGATGACATCTGCTGCTTCACTCAAGGAGCCCTGCTGGA 542
 QY 996 GAGGCTGAGCGGCTGCTGCTGCAAGATATACCCCTTACTGCTGCTGCAAGGACCC 1055
 DB 543 GAGGCTGAGCGGCTGCTGCTGCAAGATATACCCCTTACTGCTGCTGCAAGGACCC 602
 QY 1056 ACTCACTGGAAGAGCTGACAGACTCCCTCTGTTTCTGAAGCTGACAGGAGGAGA 1115
 DB 603 ACTCACTGGAAGAGCTGACAGACTCCCTCTGTTTCTGAAGCTGACAGGAGGAGA 662
 QY 1116 GTCTCTTCTGAGTGAAGGCTTCCGGAGTCTTCACTTCACTACGCTTGAATGACGA 1175
 DB 663 GTCTCTTCTGAGTGAAGGCTTCCGGAGTCTTCACTTCACTACGCTTGAATGACGA 722
 QY 1176 GAGCTGCTCTTGGATGATGCTGAGGCTTCCGGAGTCTTCACTTCACTACGCTTGAATGACGA 1235
 DB 723 GAGCTGCTCTTGGATGATGCTGAGGCTTCCGGAGTCTTCACTTCACTACGCTTGAATGACGA 782
 QY 1236 CACACCTTGAAGCCCAATTCAGCTTCTGAGGACCCAGAGGCAAGCTGCTGAC 1290
 DB 783 CACACCTTGAAGCCCAATTCAGCTTCTGAGGACCCAGAGGCAAGCTGCTGAC 837

RESULT 4
 AAL44089
 ID AAL44089 standard; cDNA; 786 BP.
 XX
 AC AAL44089;
 XX
 DT 03-OCT-2002 (first entry)
 XX
 DE Human modulator of antigen receptor signalling protein coding sequence.
 XX
 KW Human; gene; ss; gene therapy; modulator of antigen receptor signalling;
 KW MARS; tumour suppressor gene; ser-like adaptor protein; SLAP;
 KW myeloid malignancy; acute myelogenous leukemia; autoimmune disorder;
 KW immunosuppression; myeloproliferative disorder; breast cancer.
 OS Homo sapiens.
 XX
 XX
 FH Key 1.786
 FT CDS /tag= a
 FT /product= "Human MARS protein"
 XX
 MO200242452-A2.
 XX
 PD 30-MAY-2002.
 XX
 PF 26-NOV-2001; 2001MO-CA01662.
 XX
 PR 27-NOV-2000; 2000CA-2324663.
 XX
 PA (HOSP-) HOSPITAL FOR SICK CHILDREN.
 XX
 PI Mcglade JC, Loreto MP;
 XX
 DR WPI; 2002-566564/60.

DB 731 TSCCTAG 737

RESULT 7
AAL44087
ID AAL44087 standard; cDNA; 1348 BP.
XX
AC AAL44087;
XX
DT 03-OCT-2002 (first entry)
XX
DE Mouse modulator of antigen receptor signalling protein coding sequence.
XX
KW Mouse; gene; s9; gene therapy; modulator of antigen receptor signalling;
KW MARS; tumour suppressor gene; Src-like adaptor protein; SLAP;
KW myeloid malignancy; acute myelogenous leukaemia; autoimmune disorder;
KW immunosuppression; myeloproliferative disorder; breast cancer.
XX
OS Mus sp.
XX
FH Key Location/Qualifiers
FT CDS 282..1061
FT /tag= a
FT /product= "Mouse MARS protein"
XX
PN WO200242452-A2.
XX
PD 30-MAY-2002.
XX
PF 26-NOV-2001; 2001WO-CA01662.
XX
PR 27-NOV-2000; 2000CA-2324663.
XX
PA (HOSP-) HOSPITAL FOR SICK CHILDREN.
XX
PI Mcglade JC, Loreto MP;
XX
DR WPI: 2002-566564/60.
XX
DR P-PSDB; AAO15456.
XX
PT New isolated modulator of antigen receptor signaling protein or its
PT fragment, useful for treating malignant disorders such as myeloid
PT malignancies, autoimmune disorders and myeloproliferative disorders -
XX
PS Claim 10; Fig 1A; 110bp; English.
XX
CC The invention comprises the amino acid and coding sequences of modulator
CC of antigen receptor signalling (MARS) proteins. The MARS protein is a
CC putative tumour suppressor gene and exhibits structural and sequence
CC similarity to the Src-like adaptor protein (SLAP). The MARS DNA and
CC protein sequences of the invention are useful for the treatment of
CC myeloid malignancies (e.g. acute myelogenous leukaemia) autoimmune
CC disorders, immunosuppression, myeloproliferative disorders and
CC malignancies related to the de-regulation of tyrosine kinases (e.g.
CC breast cancer). The present cDNA sequence encodes a mouse MARS protein.
XX
SQ Sequence 1348 BP; 324 A; 385 C; 362 G; 277 T; 0 other;

Query Match 22.5%; Score 576.4; DB 24; Length 1348;
Best Local Similarity 75.8%; Pred. No. 1.1e-134;
Matches 784; Conservative 0; Mismatches 231; Indels 19; Gaps 5;

QY 291 AGGGCCCCCAAGGCTTACCTGTCAGGACGATGCTGTCAGAGAGCTGCTCC 350
DB 160 AGACCTCGAAGAGGCTGACCTGCGGTCACTG--TGCATATGGCTGATACCTCCT 217
QY 351 CAAGCTTTGATGACAAACCAATTTCCCTCATATGCTGCTTGAGTCTGCTGAGG 410
DB 218 CAAACGCTGATGAGCAAACTTTCCTTTCAGAGTCAAGTCTGCTGAGCCTGCTG 277
QY 411 AACATGGGAAGTCTGCCAGAGAGAAATCTCTCCAGGCCCAAGCTGATGCTCTC 470
DB 278 AGTGATGGGAAGTTTCTCAGCAGAGGAAACCT---CCAGCCCAAGCCCACTCTCTC 334

QY 471 TGTCCAAAGCCAGGAGCTGTGACATGGAACAGAGAGAGCAAGGCCACGCTTGGC 530
DB 335 TGTCTCAGACAGAGAAACCCGTCTCATATGCAACAGAAAGACACAAAGTACAGCTGTGGC 394
QY 531 CCTGGGAGATTTCCGCGAGGTGGCCCGGCGAGCTGTGCTGAGACTCGGGAGCACTT 590
DB 395 CTTGGGAGATTTCCGAGAGGTGAAACAGGCGACAGACTATCTCTGAGACTCGGGAGCCGCT 454
QY 591 GACCATCTCTCTGAGAGATGAGACATGCTGAGACGCTGTCTGAGAGTCTCAGGAGAGA 650
DB 455 GACCATCATCTCTGAGAGATGAGATGCTGAGACATCTCAGTCCGAAAGTCTCAGGAGAGA 514
QY 651 GTATTAATATCCCAAGGCTCAGCTGAGCAAGTCTCCATGGGTGCTGTATGAGGCTT 710
DB 515 GTACCAATATCCCAAGTGTATGTATGTGGCTAAAGTCGCCCAAGGTGCTGTACAGAGGCT 574
QY 711 GAGCAGGAGAAAGACAGAGAACTGCTGTTTACCTGGGAAACCTGGAGGGGCTTCT 770
DB 575 GAGCCGGGAGAAAGCTGAGAACTACTCTGTTACCTGGGAAACCTGGAGGGGCTTCT 634
QY 771 CATCCGGAGAGCCAGACACAGAGAGGCTTTACTCTGTCAAGTCCGCTCAGCCGCC 830
DB 635 CATCCGGAGAGCCAGACACAGAGAGGCTGTATTTCTGTCCGCTCAGCCGCC 694
QY 831 TGCATCTCTGGAGACCGGATACAGACATACAGAGATCCAGCTGCTTGAATGGCTGTGA 890
DB 695 TGCATCTTGGAGACCGGATACAGACATACAGAGATACAGCTTGTGCAATGGCTGTGA 754
QY 891 CATCTCAACCGGCTCAGCTTCCCTCAGCTCAGAGCCCTGTGTGACATTAATCTGAGCT 950
DB 755 CATCTCAACCTGCTCAGCTTCCCTCAGCTCAGAGCCCTGTGTGAGATTAATCTGAGACT 814
QY 951 GCGGAGATATCTGCTGCTTACATCAAGAGAGCCCTGTGTGAGAGGCTGTGGCCGCT 1010
DB 815 ACAGAGATGATCTGCTGCTTACATCAAGAGAGCCCTGTGTGAGAGGCTGTGGCCGCT 874
QY 1011 CCTTGGCAAGATATACCTCCTTACCTGTGACTGTGAGAGAGACACACTCACTGAGAAAGA 1070
DB 875 ACCTGGCAAGATATACCTCCTTACCTGTGACTGTGAGAGAGACACACTCACTGAGAAAGA 934
QY 1071 GCTGAGACGCTCCCTCCTGTTTCTGAG---CTGCAACAGGAGAGGCTCTTCTGAG 1127
DB 935 GCTGAGACGCTCCCTCCTGTTTCTGAG---CTGCAACAGGAGAGGCTCTTCTGAG 994
QY 1128 TGAAGGCTCTCCGAGAGCTTCTCAGCTTCTATCATCAAGCTGATGACAGAGCTGTCTTT 1187
DB 995 TGAAGGCTCTCCGAGAGCTTCTCAGCTTCTATCATCAAGCTGATGAGAG---CCCTTT 1048
QY 1188 GATATGATGCTAGGCGCAAGAGAGGCGCAAAAGGAAACCAAGGCTGACACCTAGAAC 1247
DB 1049 GATATGATGCTAGGCGCTTCTGAGACCAAGAGAGAGGAAACCAAGCTTGTGACACGAGAGC 1108
QY 1248 CCGAATTC---AGCTTCTGGGACCCCAAGGCAAGGCTGTGACCTGAGAGAGGAG 1302
DB 1109 TCAACTCTCCCTGACCTTCAACAAAGCTCAGAGGCGAAGGCTGGAGAACAGAGCGGCT 1168
QY 1303 GGTGGGACACAGAG 1316
DB 1169 GGGGTGGGACAG 1182

RESULT 8
AAS74748
ID AAS74748 standard; cDNA; 603 BP.
XX
AC AAS74748;
XX
DT 13-FEB-2002 (first entry)
XX
DE DNA encoding novel human diagnostic protein #10552.
XX
KW Human; chromosome mapping; gene mapping; gene therapy; forensic;

KW food supplement; medical imaging; diagnostic; genetic disorder; ss.
 XX Homo sapiens.
 OS
 XX WO200175067-A2.
 PN
 XX 11-OCT-2001.
 PD
 XX 30-MAR-2001; 2001WO-US08631.
 PF
 XX 31-MAR-2000; 2000US-0540217.
 PR 23-AUG-2000; 2000US-0649167.
 XX
 XX (HYSE-) HYSEQ INC.
 PA
 XX Drmanac RT, Liu C, Tang YT;
 PI
 XX WPI: 2001-639362/73.
 DR P-PSDB; ABG10561.
 XX
 XX New isolated polynucleotide and encoded polypeptides, useful in
 PT diagnostics, forensics, gene mapping, identification of mutations
 PT responsible for genetic disorders or other traits and to assess
 PT biodiversity -
 XX
 XX Claim 1; SEQ ID No 10552; 103pp; English.
 PS
 XX
 CC The invention relates to isolated polynucleotide (I) and
 CC polypeptide (II) sequences. (I) is useful as hybridization probes,
 CC polymerase chain reaction (PCR) primers, oligomers, and for chromosome
 CC and gene mapping, and in recombinant production of (II). The
 CC polynucleotides are also used in diagnostics as expressed sequence tags
 CC for identifying expressed genes. (I) is useful in gene therapy techniques
 CC to restore normal activity of (II) or to treat disease states involving
 CC (II). (II) is useful for generating antibodies against it, detecting or
 CC quantitating a polypeptide in tissue, as molecular weight markers and as
 CC a food supplement. (II) and its binding partners are useful in medical
 CC imaging of sites expressing (II). (I) and (II) are useful for treating
 CC disorders involving aberrant protein expression or biological activity.
 CC The polypeptide and polynucleotide sequences have applications in
 CC diagnostics, forensics, gene mapping, identification of mutations
 CC responsible for genetic disorders or other traits to assess biodiversity
 CC and to produce other types of data and products dependent on DNA and
 CC amino acid sequences. AB564197-AB594564 represent novel human
 CC diagnostic coding sequences of the invention.
 CC Note: The sequence data for this patent did not appear in the printed
 CC specification, but was obtained in electronic format directly from WIPO
 CC at ftp.wipo.int/pub/published_pct_sequences.
 XX
 XX
 SQ Sequence 603 BP; 124 A; 189 C; 164 G; 126 T; 0 other;
 Query Match 15.8%; Score 405; DB 23; Length 603;
 Best Local Similarity 100.0%; Pred. No. 9,6e-92;
 Matches 405; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 796 GGCTTACTCTCTGTCAGTCCGCTCAGCCGCTCGATCGGAGACCGATCAGAC 855
 DB 199 GGCTTACTCTCTGTCAGTCCGCTCAGCCGCTCGATCGGAGACCGATCAGAC 258
 QY 856 TACAGATCCACTGCTGACAAAGGCTGGCTGTCATCTACCGGCTCCTCTCC 915
 DB 259 TACAGATCCACTGCTGACAAAGGCTGGCTGTCATCTACCGGCTCCTCTCC 318
 QY 916 TCACTCAGGCGCTGTCAGTCCGCTCAGCCGCTCGATCGGAGACCGATCAG 975
 DB 319 TCACTCAGGCGCTGTCAGTCCGCTCAGCCGCTCGATCGGAGACCGATCAG 378
 QY 976 AAGGAGCCCTGTCCTGTCAGAGGCTGGCGCTCGTCCGCAAGATATACCTTACT 1035
 DB 379 AAGGAGCCCTGTCCTGTCAGAGGCTGGCGCTCGTCCGCAAGATATACCTTACT 438
 QY 1036 GTGACTGTGCAAGACCACTCAACTGAGAAAGATGACAGCTCCCTCTGTTTCT 1095
 |||||||
 DB 439 GTGACTGTGCAAGACCACTCAACTGAGAAAGATGACAGCTCCCTCTGTTTCT 498
 QY 1096 GAAGTGGCCACAGGAGAGAGTCTTCTCAGTGAAGGTTCCGGAGATCCCTCAGCTTC 1155
 DB 499 GAAGTGGCCACAGGAGAGAGTCTTCTCAGTGAAGGTTCCGGAGATCCCTCAGCTTC 558
 QY 1156 TACATCAGCCTGATGACGAGGCTGTCCTTTGGATGATCCCTAG 1200
 DB 559 TACATCAGCCTGATGACGAGGCTGTCCTTTGGATGATCCCTAG 603
 |||||||
 RESULT 9
 AA574747/c
 ID AA574747 standard; cDNA; 445 BP.
 XX
 XX AA574747;
 AC
 XX
 XX 13-FEB-2002 (first entry)
 DT
 XX
 XX DNA encoding novel human diagnostic protein #10551.
 DE
 XX Human; chromosome mapping; gene mapping; gene therapy; forensic;
 KW food supplement; medical imaging; diagnostic; genetic disorder; ss.
 KW
 XX Homo sapiens.
 OS
 XX WO200175067-A2.
 PN
 XX 11-OCT-2001.
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 XX 30-MAR-2001; 2001WO-US08631.
 PF
 XX 31-MAR-2000; 2000US-0540217.
 PR 23-AUG-2000; 2000US-0649167.
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 XX (HYSE-) HYSEQ INC.
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 XX Drmanac RT, Liu C, Tang YT;
 PI
 XX WPI: 2001-639362/73.
 DR P-PSDB; ABG10560.
 XX
 XX New isolated polynucleotide and encoded polypeptides, useful in
 PT diagnostics, forensics, gene mapping, identification of mutations
 PT responsible for genetic disorders or other traits and to assess
 PT biodiversity -
 XX
 XX Claim 1; SEQ ID No 10551; 103pp; English.
 PS
 XX
 CC The invention relates to isolated polynucleotide (I) and
 CC polypeptide (II) sequences. (I) is useful as hybridization probes,
 CC polymerase chain reaction (PCR) primers, oligomers, and for chromosome
 CC and gene mapping, and in recombinant production of (II). The
 CC polynucleotides are also used in diagnostics as expressed sequence tags
 CC for identifying expressed genes. (I) is useful in gene therapy techniques
 CC to restore normal activity of (II) or to treat disease states involving
 CC (II). (II) is useful for generating antibodies against it, detecting or
 CC quantitating a polypeptide in tissue, as molecular weight markers and as
 CC a food supplement. (II) and its binding partners are useful in medical
 CC imaging of sites expressing (II). (I) and (II) are useful for treating
 CC disorders involving aberrant protein expression or biological activity.
 CC The polypeptide and polynucleotide sequences have applications in
 CC diagnostics, forensics, gene mapping, identification of mutations
 CC responsible for genetic disorders or other traits to assess biodiversity
 CC and to produce other types of data and products dependent on DNA and
 CC amino acid sequences. AB564197-AB594564 represent novel human
 CC diagnostic coding sequences of the invention.
 CC Note: The sequence data for this patent did not appear in the printed
 CC specification, but was obtained in electronic format directly from WIPO
 CC at ftp.wipo.int/pub/published_pct_sequences.
 XX
 XX
 SQ Sequence 445 BP; 89 A; 112 C; 143 G; 101 T; 0 other;

Query Match 15.4%; Score 395; DB 23; Length 445;
Best Local Similarity 98.6%; Pred. No. 2,7e-89;
Matches 409; Conservative 0; Mismatches 5; Indels 1; Gaps 1;

QY 71 CCTGAGGCTTCCCTCCGAGGCTGAGGCTTGGAGGGTCCCAAGTCAGATCCC 130
DB 416 CCTGAGGCTTCCCTCCGAGGCTGAGGCTTGGAGGGTCCCAAGTCAGATCCC 357
QY 131 TAAGGAGCATGGGGAGCTGATTCATCCCTGGTGTACAACTGCTGACTCAGACATG 190
DB 356 TAAGGAGCATGGGGAGCTGATTCATCCCTGGTGTACAACTGCTGACTCAGACATG 297
QY 191 CTGAGCTACCCAAACCAACCTAGCTCTCCGAGAGATCTCCAGGCTGAGAGATG - 249
DB 296 CTGAGCTACCCAAACCAACCTAGCTCTCCGAGAGATCTCCAGGCTGAGAGATG 237
QY 250 TCTGGGTCTCTAGACCAAGACACTGGCAGACTTCCAGAAAGGCCCCAAAGCTTAA 309
DB 236 TCTGGGTCTCTAGACCAAGACACTGGCAGACTTCCAGAAAGGCCCCAAAGCTTAA 177
QY 310 CCTGTCAGACGAGCATGGCTCTAGACGAGCTGTCTCCCAAGCTTGTATGACAAAC 369
DB 176 CCTGTCAGACGAGCATGGCTCTAGACGAGCTGTCTCCCAAGCTTGTATGACAAAC 117
QY 370 CAATTTCCCTGATGATGCTTCTGAGTCTCTGCTGAGAACATGGAGTCTGCC 429
DB 116 CAATTTCCCTGATGATGCTTCTGAGTCTCTGCTGAGAACATGGAGTCTGCC 57
QY 430 AGCAGAGAAAAATCTGSCAAGCCCAAGTTGAGTTCTCTGTCAGAGGCCAG 484
DB 56 AGCAGAGAAAAATCTGSCAAGCCCAAGTTGAGTTCTCTGTCAGAGGCCAG 2

RESULT 10
AAK67918
ID AAK67918 standard; DNA; 273 BP.
XX AAK67918;
AC AAK67918;
XX 06-NOV-2001 (first entry)
DT 06-NOV-2001 (first entry)
XX Human immune/haematopoietic antigen genomic sequence SBO ID NO:22730.
DE Human immune/haematopoietic; immune/haematopoietic antigen; cancer;
XX Human; immune; haematopoietic; immune/haematopoietic antigen; cancer;
KM cytolethal; gene therapy; vaccine; metastasis; ds.
XX Homo sapiens.
OS Homo sapiens.
XX WO200157182-A2.
PN WO200157182-A2.
XX 09-AUG-2001.
PD 09-AUG-2001.
XX 17-JAN-2001; 2001MO-US01354.
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PR 07-JUL-2000; 2000US-0216647.
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PR 02-OCT-2000; 2000US-0236802.
PR 02-OCT-2000; 2000US-0237037.
PR 02-OCT-2000; 2000US-0237038.
PR 02-OCT-2000; 2000US-0237039.
PR 02-OCT-2000; 2000US-0237040.
PR 13-OCT-2000; 2000US-0239935.
PR 13-OCT-2000; 2000US-0239937.
PR 20-OCT-2000; 2000US-0240960.
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PR 20-OCT-2000; 2000US-0241786.
PR 20-OCT-2000; 2000US-0241787.
PR 20-OCT-2000; 2000US-0241808.
PR 20-OCT-2000; 2000US-0241809.
PR 20-OCT-2000; 2000US-0241826.
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PR 08-NOV-2000; 2000US-0246474.
PR 08-NOV-2000; 2000US-0246475.
PR 08-NOV-2000; 2000US-0246476.
PR 08-NOV-2000; 2000US-0246477.

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PR 08-NOV-2000; 2000US-0246478.
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PR 08-NOV-2000; 2000US-0246613.
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PR 17-NOV-2000; 2000US-0249208.
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PR 08-DEC-2000; 2000US-0251868.
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PR 08-DEC-2000; 2000US-0251989.
PR 08-DEC-2000; 2000US-0251990.
PR 11-DEC-2000; 2000US-0254097.
PR 05-JAN-2001; 2001US-025678.

XX (HUMA-) HUMAN GENOME SCI INC.
PA
PI Rosen CA, Barash SC, Ruben SM;
PI WPI; 2001-483426/52.
XX
XX Nucleic acids encoding human immune/hematopoietic antigen polypeptides,
PT useful for preventing, diagnosing and/or treating cancers and
PT metastasis -
XX
XX Disclosure; SEQ ID NO 22730; 3071bp + Sequence Listing; English.
PS
XX AAK54951 to AAK64702 encode the human immune/hematopoietic antigen (I)
CC amino acid sequences given in AAM82170 to AAM81921. (I) have cytostatic
CC activity, and can be used in gene therapy and vaccine production. (I)
CC proteins and polynucleotides may be used in the prevention, diagnosis and
CC treatment of diseases associated with inappropriate (I) expression. For
CC example, they may be used to treat disorders associated with decreased
CC expression by rectifying mutations or deletions in a patient's genome
CC that affect the activity of (I) by expressing inactive proteins or to
CC supplement the patient's own production of (I). Additionally, (I)
CC polynucleotides may be used to produce the secreted (I), by inserting
CC the nucleic acids into a host cell and culturing the cell to express the
CC protein. (I) proteins and polynucleotides may be used to prevent,
CC diagnose and treat immune/hematopoietic-related diseases, especially
CC cancers and cancer metastases of hematopoietic-derived cells. AAK64703
CC to AAK87694 represent human immune/hematopoietic antigen genomic
CC sequences from the present invention. AAK54942 to AAK54950 and AAM82169

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CC represent sequences used in the exemplification of the present invention.
XX
XX Sequence 273 BP; 76 A; 68 C; 71 G; 58 T; 0 other;
SQ
Query Match 9.9%; Score 254.6; DB 22; Length 273;
Best Local Similarity 98.2%; Pred No. 4.2e-54;
Matches 269; Conservative 0; Mismatches 4; Indels 1; Gaps 1;

QY 2277 AGAAGTGCTAAGCCCTCTCTCCCAATGCCAAGCGAGACAG-CTTACACCAAT 2335
DB 1 AGAAGTGCTAAGCCCTCTCTCCCAATGCCAAGCGAGACAGCGCCCAACCAAT 60
QY 2336 CCAGCCCTTGATTTCCCTGCGCCCTCATTAACAGAAAGGCTGCTGATCGCGCTAAG 2395
DB 61 CCAGCCCTTGATTTCCCTGCGCCCTCATTAACAGAAAGGCTGCTGATCGCGCTAAG 120
QY 2396 GGATCAGGAGAGAGAAAGAGAGGATGGGGTGGAGGCAACCCCTCAGTCTTCACT 2455
DB 121 GGATCAGGAGAGAGAAAGAGAGGATGGGGTGGAGGCAACCCCTCAGTCTTCACT 180
QY 2456 GGTCCCAAGCTACAGGTGGGGTGGGAAAGCTTATCAGGTATCATCAAGGTTCTCA 2515
DB 181 GGTCCCAAGCTACAGGTGGGGTGGGAAAGCTTATCAGGTATCATCAAGGTTCTCA 240
QY 2516 ATTAAAGATTGATTATTATTCAGATGTGAAA 2548
DB 241 ATTAAAGATTGATTATTATTCAGATGTGAAA 273

RESULT 11
AAS28365
ID AAS28365 standard; DNA; 32188 BP.
XX
XX AAS28365;
AC
AC 07-NOV-2001 (first entry)
DT
DT 07-NOV-2001 (first entry)
XX
XX Genomic sequence #205 encoding for novel human respiratory antigen.
DE
DE
XX
XX Human; respiratory antigen; respiratory disorder; throat disorder;
KW lung disorder; nose disorder; lung cancer; gene therapy; cytostatic;
KW anti allergic; anti asthmatic; anti inflammatory; olfactory;
KW respiratory active; ds.
XX
XX Homo sapiens.
OS
XX
XX PN WO200155448-A1.
XX
XX 02-AUG-2001.
PD
PD
XX
XX 17-JAN-2001; 2001WO-US01333.
PF
PF 31-JAN-2000; 2000US-0179065.
XX
XX 04-FEB-2000; 2000US-0180628.
PR
PR 24-FEB-2000; 2000US-0184664.
PR
PR 02-MAR-2000; 2000US-0186350.
PR
PR 16-MAR-2000; 2000US-0189874.
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PR 17-MAR-2000; 2000US-0190076.
PR
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PR 19-MAY-2000; 2000US-0205515.
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PR 07-JUN-2000; 2000US-0209467.
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PR 28-JUN-2000; 2000US-0214886.
PR
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PR
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PR
PR 07-JUL-2000; 2000US-0216880.
PR
PR 11-JUL-2000; 2000US-0217487.
PR
PR 14-JUL-2000; 2000US-0217496.
PR
PR 14-JUL-2000; 2000US-0218290.
PR
PR 26-JUL-2000; 2000US-0220963.
PR
PR 26-JUL-2000; 2000US-0220964.
PR
PR 14-AUG-2000; 2000US-0224518.
PR
PR 14-AUG-2000; 2000US-0224519.
PR
PR 14-AUG-2000; 2000US-0225213.

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CC	represent sequences used in the exemplification of the present invention
XX	
SO	Sequence 18949 BP; 4570 A; 4853 C; 4987 G; 4539 T; 0 other;
	Query Match 9 4%; Score 240.8; DB 22; Length 18949;
	Best Local Similarity 87.8%; Pred. No. 6,9e-50;
	Matches 274; Conservative 0; Mismatches 37; Indels 1; Gaps 1;
QY	1824 CCCGAGCTCTTTTCTTTTTTTTTTGACGGAGCTTGGCCTGTGCCATCTCGAAGTG 1883
Db	1013 CCCCAACCCTTTTTTTTTTTTTTTTGAGWGAAGCTTGCTGTGTGGCCAGCGTAGGTG 954
QY	1884 CAATGGACGAATCTAGTCATCGCAACTCATCTCTGGAATTCAAACAATTCTCTGC 1943
Db	953 CAATGGACGAATCTAGCTTATCTGTAATCTCTCCGTCTCCGGSGTTCAAGCAATTCTCTGC 894
QY	1944 CTCAGCCTCCAGAATAGCTGGGATTACAGGCGTACACACATGCTGCTAAATTTTTTT 2003
Db	893 CTCAGCCTCCCCAGTAGTGTGAATTAACGAGCATGTGCCAACACCTGGGTAAATTTTTTTT 834
QY	2004 GTATTTTTTAGTAGANAGGAGTTTACACACATTGGGACAGGCTGTGTGCAACTCTGACC 2063
Db	833 GTATTTTTTAATAGACAGGGGTTTCCCATCTTGCCACAGCTGTGTCCAATCTCTGACC 774
QY	2064 TCAGGTATCAACCCACCTTGCGCTTCCAAAGTGTCTGGGATTAC-AAGTGTGAGCACAGG 2122
Db	773 TCAGGCGANTCAACCCACTCGGCTGCCAAGTGTCTGGGATTACMAAGCGTGAAGCACCG 714
QY	2123 CACCGAGCTTAG 2134
Db	713 CCGCGGGGCTTGG 702
RESULT 13	
AAZ50359	
ID	AAZ50359 standard; DNA; 9365 BP.
XX	
AC	AAZ50359;
XX	
DT	18-MAY-2000 (first entry)
XX	
DE	Human CD39-L4 genomic DNA.
XX	
KW	CD39-L4; human; apyrase; nucleotide diphosphatase; NDPase;
KW	ADP Diphosphohydrolase; ATPase; adenosine diphosphate; ADP; treatment;
KW	platelet aggregation; antithrombotic; thrombolysis; myocardial infarction;
KW	cerebral ischemia; angina; vascular graft; extracorporeal circulation;
KM	molecular weight marker; nutritional supplement; tumour; prevention;
KM	drug targeting; ds.
OS	Homo sapiens.
XX	
XX	
FH	Key
FT	CDS
FT	Location/Qualifiers
FT	72..8642
FT	/tag= a
FT	/product= "human CD39-L4 protein"
FT	/note= "Coding region is interrupted with introns"
FT	exon
FT	1..288
FT	/tag= b
FT	/number= 1
FT	intron
FT	289..1280
FT	/tag= c
FT	/number= 1
FT	exon
FT	1281..1580
FT	/tag= d
FT	/number= 2
FT	intron
FT	1581..1819
FT	/tag= e
FT	/number= 2
FT	exon
FT	1820..1855
FT	/tag= f
FT	/number= 3
FT	intron
FT	1856..2466

DR WPI: 2001-147489/15.
 XX Polynucleotides encoding human CD39-like polypeptides, with apyrase
 PT and/or NDBase activity, which are useful in the treatment of
 PT pathological conditions caused by thrombosis (e.g. myocardial
 PT infarction) and inflammatory disorders -
 PS Example 11: Page 148-154; 203pp; English.
 XX
 CC This invention relates to polynucleotides encoding human CD39-like
 CC polypeptides with apyrase and/or NDBase activity. The polypeptides having
 CC ATPase, including NDBase, activity are useful for inhibiting platelet
 CC function and can therefore be used in the prophylaxis or treatment of
 CC pathological conditions caused by or involving thrombosis or excessive
 CC coagulation or excessive platelet aggregation, such as myocardial
 CC infarction, cerebral ischemia, angina, arterial thrombosis, cerebral
 CC artery thrombosis or intracardiac thrombosis, and conditions associated
 CC with venous thrombosis. CD39-L4 and CD39-L2 polypeptides are useful in
 CC modulating disease states (including platelet aggregation, inflammation
 CC and apoptosis) associated with ADP or other purinergic signaling by
 CC reducing the levels of NDBs. The polypeptides are also useful for
 CC prophylaxis or treatment of inflammatory related disorders, such as
 CC disorders involving sepsis or systemic inflammatory response syndrome or
 CC SIRS (and associated conditions such as fever, tachycardia, tachypnea,
 CC cytokine overstimulation); autoimmune disorders such as thrombosis,
 CC atherosclerosis, acute pancreatitis, dermatitis, including psoriasis,
 CC cirrhosis, reperfusion injury, asthma, multiple sclerosis, arthritis;
 CC neurological disorders including neurodegenerative diseases, epilepsy,
 CC depression, Alzheimer's disease, Parkinson's disease, Huntington's
 CC disease, and amyotrophic lateral sclerosis; and cancer. The present
 CC sequence represents a CD39 like protein CD39-L4 partial DNA sequence.
 XX
 SQ Sequence 9365 BP; 2439 A; 2005 C; 2191 G; 2632 T; 98 other:
 Query Match 9.4%; Score 240.2; DB 22; Length 9365;
 Best Local Similarity 76.7%; Pred. No. 7.4e-50;
 Matches 257; Conservative 34; Mismatches 43; Indels 1; Gaps 1;
 QY 1831 TCTTTTCTTTTGTGAGAGCGAGCTTGC-CCTGTGCGCCATGCGAGTGCATGG 1889
 Db 7427 TTTATTATTATTTTGTGAGAGCGAGCTTGCCTTGTTCCTTCGCGAGTGCATGG 7486
 QY 1890 CACGATTCACCTGACCTGCAACCTCATCTCTGGATTCAAAATTTCTCTGCTCAGC 1949
 Db 7487 CRGATCWCRCCTGCTACGACRCCCTCTCTGGGTTCAACGATTCCTGCTCAGC 7546
 QY 1950 CTCGAGATTAAGCTGAGATTACAGGCGTACACCAATGCTGCTAATTTTGTATT 2009
 Db 7547 CTCGAGATTAAGCTGAGATTACAGGCGTACACCAATGCTGCTAATTTTGTATT 7606
 QY 2010 TTAATGACATGGGGTTTCAACATTTGGCCAGGCTGCTGCAATCTGACCTAGGT 2069
 Db 7607 TTAATGACATGGGGTTTCAACATTTGGCCAGGCTGCTGCAATCTGACCTAGGT 7666
 QY 2070 GATCCACCACTGCTGCTGCCAAGTCTGAGATTACAGGTGAGCCAGCACCCAG 2129
 Db 7667 GATCCACCACTGCTGCTGCCAAGTCTGAGATTACAGGTGAGCCAGCACCCAG 7726
 QY 2130 CCTAGCTCAGATCTCTAATTTATTTGTGCTT 2164
 Db 7727 CCTTTTGTGCTGCTTCTTTTCTTTTCTTTT 7761
 RESULT 15
 AAFF3406 standard; DNA; 14747 BP.
 AC AAFF3406;
 XX 14-MAY-2001 (first entry)
 XX *Human CD39 like protein CD39-L4 genomic DNA sequence.
 XX

KW Human CD39-like protein; apyrase; NDBase; platelet function inhibitor;
 KW myocardial infarction; cerebral ischemia; angina; arterial thrombosis;
 KW cerebral artery thrombosis; platelet aggregation; inflammation;
 KW apoptosis; autoimmune disorder; neurological disorder;
 KW Alzheimer's disease; Parkinson's disease; cancer; CD39-L4; ds.
 OS Homo sapiens.
 XX
 PN WO200110205-A1.
 XX
 PD 15-FEB-2001.
 XX
 PF 09-AUG-2000; 2000MO-US21790.
 XX
 PR 09-AUG-1999; 99US-0370265.
 PR 11-JAN-2000; 2000US-0481238.
 PR 25-APR-2000; 2000US-0557800.
 PR 26-MAY-2000; 2000US-0583221.
 PR 30-JUN-2000; 2000US-0608285.
 XX
 PA (HYSE-) HYSEQ INC.
 XX
 PI Ford J, Mulero JJ, Yeung G;
 XX
 DR WPI: 2001-147489/15.
 XX
 PT Polynucleotides encoding human CD39-like polypeptides, with apyrase
 PT and/or NDBase activity, which are useful in the treatment of
 PT pathological conditions caused by thrombosis (e.g. myocardial
 PT infarction) and inflammatory disorders -
 PS Example 11: Page 168-176; 203pp; English.
 XX
 CC This invention relates to polynucleotides encoding human CD39-like
 CC polypeptides with apyrase and/or NDBase activity. The polypeptides having
 CC ATPase, including NDBase, activity are useful for inhibiting platelet
 CC function and can therefore be used in the prophylaxis or treatment of
 CC pathological conditions caused by or involving thrombosis or excessive
 CC coagulation or excessive platelet aggregation, such as myocardial
 CC infarction, cerebral ischemia, angina, arterial thrombosis, cerebral
 CC artery thrombosis or intracardiac thrombosis, and conditions associated
 CC with venous thrombosis. CD39-L4 and CD39-L2 polypeptides are useful in
 CC modulating disease states (including platelet aggregation, inflammation
 CC and apoptosis) associated with ADP or other purinergic signaling by
 CC reducing the levels of NDBs. The polypeptides are also useful for
 CC prophylaxis or treatment of inflammatory related disorders, such as
 CC disorders involving sepsis or systemic inflammatory response syndrome or
 CC SIRS (and associated conditions such as fever, tachycardia, tachypnea,
 CC cytokine overstimulation); autoimmune disorders such as thrombosis,
 CC atherosclerosis, acute pancreatitis, dermatitis, including psoriasis,
 CC cirrhosis, reperfusion injury, asthma, multiple sclerosis, arthritis;
 CC neurological disorders including neurodegenerative diseases, epilepsy,
 CC depression, Alzheimer's disease, Parkinson's disease, Huntington's
 CC disease, and amyotrophic lateral sclerosis; and cancer. The present
 CC sequence represents the CD39 like protein CD39-L4 genomic DNA sequence.
 XX
 SQ Sequence 14747 BP; 3821 A; 3235 C; 3349 G; 4294 T; 48 other:
 Query Match 9.4%; Score 240.2; DB 22; Length 14747;
 Best Local Similarity 76.7%; Pred. No. 8.8e-50;
 Matches 257; Conservative 34; Mismatches 43; Indels 1; Gaps 1;
 QY 1831 TCTTTTCTTTTGTGAGAGCGAGCTTGC-CCTGTGCGCCATGCGAGTGCATGG 1889
 Db 10787 TTTATTATTATTTTGTGAGAGCGAGCTTGTTCCTTCGCGAGTGCATGG 10846
 QY 1890 CACGATTCACCTGACCTGCAACCTCATCTCTGGATTCAAAATTTCTCTGCTCAGC 1949
 Db 10847 CRGATCWCRCCTGCTACGACRCCCTCTCTGGGTTCAACGATTCCTGCTCAGC 10906
 QY 1950 CTCGAGATTAAGCTGAGATTACAGGCGTACACCAATGCTGCTAATTTTGTATT 2009
 Db 10907 CTCGAGATTAAGCTGAGATTACAGGCGTACACCAATGCTGCTAATTTTGTATT 10966

Qy	2010	TATGATGACATGGGGGTTTACACCATTTGGCAGCGCTGGTGTGAATCTCTGACCTCAAGT	2069
Db	10967	TATGATGACAGCGGGGTTTACACATGTTGGCAGCGCTRKTCTTACATCTTGATCTGACGT	110287
Qy	2070	GATCCACCCACCTTGGCTCCCGAAATGTGGATTAACGCTGTGACCCAGCACCCGAC	2129
Db	11027	GATCCACCCACCTCTCGCTCCCGAAATGCTGKATTTTAAGAGTGTGACGACACACCCCTG	110861
Qy	2130	CCTAGACTCAATCTCATTTCAATCATTTGTGACTT	2164
Db	11087	CCTTTTCTGCTGCTCTTTTCTTTCTTTCTTTT	11121

Search completed: March 30, 2003, 00:48:20
Job time : 911.101 secs

